L Number	Hits	Search Text	DB	Time stamp
1	365	full adj match	USPAT;	2004/09/21 14:18
			US-PGPUB;	
			EPO; JPO;	
		•	DERWENT;	
	44	(full add match) and a coult add to	IBM_TDB	0004/00/04 44:49
2	41	(full adj match) and search adj key	USPAT;	2004/09/21 14:18
			US-PGPUB; EPO; JPO;	
		a.	DERWENT;	
			IBM_TDB	
3	5	((full adj match) and search adj key) and search adj tree	USPAT;	2004/09/21 14:32
		, , ,	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	2	(Mulliandi mandala) and a a and a did to a and (a canata a dida a a)	IBM_TDB	0004/00/04 44:00
4	3	((full adj match) and search adj key) and (search adj tree) same table	USPAT;	2004/09/21 14:20
		same table	US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
5	25	((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:21
		same (key or index\$6))	US-PGPUB;	
		·	EPO; JPO;	
			DERWENT;	
6	40	///fill adi match) and accept adi less) and (accept accept accept table	IBM_TDB	0004/00/04 44:04
6	18	(((full adj match) and search adj key) and (search same table same (key or index\$6))) and (look\$3 adj up) same table	USPAT;	2004/09/21 14:31
		same (key or indexpojj) and (lookps adjup) same table	US-PGPUB; EPO; JPO;	
			DERWENT:	
			IBM_TDB	
7	1	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:27
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		leaf same (bit same tree)	EPO; JPO;	,
	i I		DERWENT;	
8	2	((((full adj match) and search adj key) and (search same table	IBM_TDB USPAT;	2004/09/21 14:25
0		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	2004/09/21 14.25
		leaf same (bit and tree)	EPO; JPO;	• .
			DERWENT;	
			IBM_TDB	
9	2	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:25
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		leaf and bits! and tree	EPO; JPO;	
			DERWENT;	
10	2	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:25
	_	same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	200 1/00/21 14.20
		leaf and bits!	EPO; JPO;	
			DERWENT;	
			IBM_TDB .	
11	2	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:26
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		leaf	EPO; JPO;	
			DERWENT; IBM TDB	
12	5	(((full adj match) and search adj key) and search adj tree) and	USPAT;	2004/09/21 14:26
		leaf	US-PGPUB;	
		,	EPO; JPO;	
		,	DERWENT;	
40			IBM_TDB	
13	16	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:27
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		(bits same tree)	EPO; JPO; DERWENT;	
			DERWENT; IBM_TDB	
			םטו_ואוטו	L

	_			
14	16	((((full adj match) and search adj key) and (search same table same (key or index\$6))) and (look\$3 adj up) same table) and	USPAT; US-PGPUB;	2004/09/21 14:28
		(bits! same tree)	EPO; JPO;	
•			DERWENT;	
			IBM_TDB	
15	8	((((full adj match) and search adj key) and (search same table	USPAT;	2004/09/21 14:30
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		length same bits!	EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
16	16	((((USPAT;	2004/09/21 14:32
		same (key or index\$6))) and (look\$3 adj up) same table) and	US-PGPUB;	
		length same bit	EPO; JPO;	
			DERWENT;	,
4-		# 1 A A	IBM_TDB	
17	60508	(look\$3 adj up) same table	USPAT;	2004/09/21 14:31
		·	US-PGPUB;	
			EPO; JPO;	á.
		•	DERWENT;	
18	186	((look\$3 adjus) same table) and search adjusted	IBM_TDB	2004/00/24 44:22
10	100	((look\$3 adj up) same table) and search adj tree	USPAT; US-PGPUB;	2004/09/21 14:32
		·	EPO; JPO;	
			DERWENT;	
		*	IBM TDB	
19	27	(((look\$3 adj up) same table) and search adj tree) and search	USPAT;	2004/09/21 14:32
		adj key	US-PGPUB;	2004/03/21 14.32
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
20	18	(((((look\$3 adj up) same table) and search adj tree) and search	USPAT;	2004/09/21 14:41
		adj key) and length and bit	US-PGPUB;	
		"	EPO; JPO;	
			DERWENT;	
00			IBM_TDB	•
22	11	(((((look\$3 adj up) same table) and search adj tree) and	USPAT;	2004/09/21 14:38
		search adj key) and length and bit) and hash\$7	US-PGPUB;	
		** * - * - * * * * * * * * * * * * * *	EPO; JPO;	9
			DERWENT; IBM TDB	,
24	8	((((((look\$3 adj up) same table) and search adj tree) and	USPAT;	2004/09/21 14:39
		search adj key) and length and bit) and hash\$7) and table	US-PGPUB;	2004/03/21 14.38
		same (address or pointer) same stor\$3	EPO; JPO;	
		,,	DERWENT;	
			IBM_TDB	
25	0	(((((look\$3 adj up) same table) and search adj tree) and	USPAT;	2004/09/21 14:42
		search adj key) and length and bit) and brach\$3 and leaf	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
26	7	(((((look\$3 adj up) same table) and search adj tree) and	USPAT;	2004/09/21 14:42
		search adj key) and length and bit) and branch\$3 and leaf	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	•
			IBM_TDB	



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Scalable high-speed prefix matching

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner November 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 4

Full text available: pdf(933.02 KB)

Additional Information: full citation, abstract, references, citings, index terms

Finding the longest matching prefix from a database of keywords is an old problem with a number applications, ranging from dictionary searches to advanced memory management to computation geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p ...

Keywords: collision resolution, forwarding lookups, high-speed networking

² Full papers: Tree bitmap: hardware/software IP lookups with incremental updates Will Eatherton, George Varghese, Zubin Dittia

April 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 2

Full text available: pdf(189.39 KB)

Additional Information: full citation, abstract, references

Even with the significant focus on IP address lookup in the published literature as well as focus or market by commercial semiconductor vendors, there is still a challenge for router architects to fin solutions that simultaneously meet 3 criteria: scaling in terms of lookup speeds as well as table si the ability to perform high speed updates, and the ability to fit into the overall memory architectu of an Level 3 forwarding engine or packet processor with low systems cost overhead. I ...

³ Fast address lookups using controlled prefix expansion

V. Srinivasan, G. Varghese

February 1999 ACM Transactions on Computer Systems (TOCS), Volume 17 Issue 1

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Internet (IP) address lookup is a major bottleneck in high-performance routers. IP address lookup challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, higher-speed links, and the migration to 128-bit IPv6 addres We describe how IP lookups and updates can be made faster using a set of of transformation techniques. Our main technique, controlled prefix expansion, transf ...



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1 A fast string-matching algorithm for network processor-based intrusion detection

Rong-Tai Liu, Nen-Fu Huang, Chih-Hao Chen, Chia-Nan Kao August 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 3

Full text available: pdf(571.00 KB) Additional Information: full citation, abstract, references, index terms

Network intrusion detection systems (NIDSs) are one of the latest developments in security. The matching of packet strings against collected signatures dominates signaturebased NIDS performance. Network processors are also one of the fastest growing segments of the semiconductor market, because they are designed to provide scalable and flexible solutions that can accommodate change quickly and economically. This work presents a fast string-matching algorithm (called FNP) over the network proces ...

Keywords: Intrusion detection, network, pattern matching, processor

Scalable high-speed prefix matching

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner November 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 4

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Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p ...

Keywords: collision resolution, forwarding lookups, high-speed networking

Router plugins: a software architecture for next-generation routers Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner February 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 1

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